

PHYSIKALISCHES KOLLOQUIUM

Wintersemester 2023/24

Das Kolloquium findet (soweit unten nicht anders angegeben) jeweils montags **jeweils montags um 17:15 Uhr online via Zoom** statt.

(Der jeweilige Link wird noch zur Verfügung gestellt.).

29.01.2024

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Fusion Energy – International research for a future energy supply

Abstract

Fusion, the nuclear reaction that powers the Sun and the stars, is a promising long-term option for a sustainable, non-carbon emitting global energy supply [1]. However, realisation on Earth faces many challenges from the physics and technology point of view. In the last decades tremendous progress made with records in magnetic fusion at JET [2] and laser fusion at NIF [3]. The contribution of the international (magnetic) fusion project, ITER, the largest tokamak machine of the world, that is pathing the way to a fusion power plant is discussed touching also briefly the role of the numerous fusion energy start-ups founded recently.

- [1] <https://www.iter.org>
- [2] <https://euro-fusion.org/eurofusion-news/european-researchers-achieve-fusion-energy-record>
- [3] <https://lasers.llnl.gov/science/pursuit-of-ignition>

Für die Dozentinnen bzw. Dozenten der Fakultät

Prof. Dr. Assaad, Prof. Dr. Hinrichsen, Prof. Dr. Pflaum und Hr. Kuhr